

Title (en)
SHAFT, E.G., FOR AN ELECTRO-MECHANICAL SURGICAL DEVICE

Title (de)
SCHAFT, Z.B. FÜR EINE ELEKTOMECHANISCHE CHIRURGISCHE VORRICHTUNG

Title (fr)
ARBRE, PAR EXEMPLE POUR UN DISPOSITIF CHIRURGICAL ELECTROMECHANIQUE

Publication
EP 1912570 A4 20120613 (EN)

Application
EP 06788914 A 20060727

Priority
• US 2006029614 W 20060727
• US 70322705 P 20050727

Abstract (en)
[origin: WO2007014355A2] A shaft being, e.g., flexible, that includes an elongated outer sheath, at least one drive shaft disposed within the outer sheath and a ring non-rotatably mounted on the at least one rotatable drive shaft and at least one light source mounted within the shaft, such that, upon rotation of the at least one rotatable drive shaft, the ring alternately blocks and allows light from the light source to be detected. The shaft may also include a moisture sensor disposed within the outer sheath of the shaft and configured to detect moisture within the outer sheath. The shaft may include couplings that connect a distal end of the outer sheath to a surgical attachment and a proximal end of the outer sheath to a remote power console.

IPC 8 full level
A61B 17/00 (2006.01); **A61B 1/00** (2006.01); **A61B 1/04** (2006.01); **A61B 1/06** (2006.01); **A61B 1/12** (2006.01); **A61B 17/068** (2006.01); **A61B 17/115** (2006.01)

CPC (source: EP US)
A61B 17/00234 (2013.01 - EP US); **A61B 17/068** (2013.01 - EP US); **A61B 17/115** (2013.01 - EP US); **A61B 17/1155** (2013.01 - US); **A61B 17/1285** (2013.01 - EP US); **A61B 17/7208** (2013.01 - EP US); **A61B 34/70** (2016.02 - EP US); **A61B 34/71** (2016.02 - EP US); **A61B 34/74** (2016.02 - US); **A61B 90/08** (2016.02 - US); **F16C 1/06** (2013.01 - US); **A61B 90/06** (2016.02 - US); **A61B 90/30** (2016.02 - US); **A61B 90/90** (2016.02 - EP US); **A61B 2017/00026** (2013.01 - EP US); **A61B 2017/00119** (2013.01 - EP US); **A61B 2017/00199** (2013.01 - EP US); **A61B 2017/00323** (2013.01 - US); **A61B 2017/00398** (2013.01 - EP US); **A61B 2017/00464** (2013.01 - EP US); **A61B 2017/00853** (2013.01 - EP US); **A61B 2017/2905** (2013.01 - EP US); **A61B 2034/742** (2016.02 - EP US); **A61B 2090/067** (2016.02 - EP US); **A61B 2090/0803** (2016.02 - EP US); **A61B 2090/0811** (2016.02 - EP US); **A61B 2090/306** (2016.02 - EP US); **A61B 2217/005** (2013.01 - EP US); **A61B 2217/007** (2013.01 - US); **H04B 10/25** (2013.01 - US)

Citation (search report)
• [XY] US 2002049454 A1 20020425 - WHITMAN MICHAEL P [US], et al
• [Y] US 4162399 A 19790724 - HUDSON CHARLES L [US]
• [Y] WO 03077769 A1 20030925 - POWER MED INTERVENTIONS INC [US]
• [Y] US 2004111012 A1 20040610 - WHITMAN MICHAEL P [US]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007014355 A2 20070201; **WO 2007014355 A3 20090416**; CA 2617122 A1 20070201; CA 2617122 C 20131210; CN 101495046 A 20090729; CN 101495046 B 20121212; CN 102988087 A 20130327; CN 102988087 B 20150909; EP 1912570 A2 20080423; EP 1912570 A4 20120613; EP 1912570 B1 20141008; EP 2799014 A2 20141105; EP 2799014 A3 20150311; EP 2799014 B1 20180905; IL 189046 A 20121031; JP 2009502359 A 20090129; JP 2012081291 A 20120426; JP 5043842 B2 20121010; JP 5432975 B2 20140305; US 10582978 B2 20200310; US 2007055219 A1 20070308; US 2015133224 A1 20150514; US 2017056119 A1 20170302; US 2020205921 A1 20200702; US 8960519 B2 20150224; US 9504455 B2 20161129

DOCDB simple family (application)
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